

Applicant Name Hamilton, City of
Project Name Hamilton Wastewater Treatment Facilities Improvements

Project Abstract

The City of Hamilton's Wastewater Treatment Facilities Improvements Project will expand and upgrade existing facilities to meet water quality requirements address replacement of aging equipment, and meet growth requirements.

These improvements include:

- Installing a new mechanical bar screen;
- Installing a second dissolved air flotation thickener unit;
- Installing additional vacuum bio-solids dewatering;
- Replacing the existing engine generator and electrical service entrance equipment;
- Installing a non-potable water pumping station at the wastewater treatment plant; and
- Installing a radio-based telemetry station at each wastewater pumping station not currently monitored.

The total proposed cost for these improvements is \$3,100,000.

The recommended improvements will allow the Hamilton facility to treat wastewater to a much higher standard than is currently available. The proposed improvements, focused for the Renewable Resource grant, include installation of a new non-potable water supply that will enable the city to significantly reduce the facility's reliance on the city's potable water system. The non-potable water pumping system will allow reuse of treated wastewater for chlorination and other treatment processes within the facility. The result will be an immediate conservation of nearly 800,000 gallons per month from the city's domestic water supply. In addition, the other proposed improvements will allow denser, urban-type development, further eliminating septic systems and providing upgrades to the aging community system and allowing more efficient and less wasteful use of water.

This project will also benefit Montana's renewable water resources by preserving and protecting water resources from contamination. Hamilton's drinking water source is its sole source aquifer, an unconfined system that allows surface contamination to pass into this water source. Converting aging systems that have shown failures and connecting septic and other on-site community systems to a central wastewater treatment plant is the only way to protect the waters of the Hamilton community.